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CATALOGUE OF NORTH AMERICAN APID.E.*

BY E. T. CRESSON.

PANURGUS Panz.

- chalybeus* Cresson, Trans. Am. Ent. Soc. vii, p. 61, ♂ ♀. California.
maurus Cress. ibid. 61, ♀. Colorado.
regularis Cress. ibid. 62, ♂. California.
andrenoides Cress. ibid. 62, ♂. Colorado, Texas.
nevadensis Cress. ibid. 214, ♂. Nevada.
nigrifrons Cress. ibid. 62, ♂. Texas.
marginatus Cress. ibid. 62, ♀. Kansas.
halictulus Cress. ibid. 63, ♂. Colorado, Utah.
fimbriatus Cress. ibid. 63, ♀. Colorado.
parvus Cress. Proc. Ent. Soc. Phila. iv, 175, ♂ ♀. Cuba.

CALLIOPSIS Smith.

- andreniformis* Sm. Brit. Mus. Cat. i, 128, ♀. Mid. South. & West. States.
flavipes Sm. ibid. 129, ♂. Can., East. Mid. & South. States.
maculatus Sm. ibid. 129, ♀. Florida, +.
flavifrons Sm. ibid. 129, ♂. Florida, +.
coloradensis Cress. Trans. vii, 63, ♂ ♀. Colorado.
sebratus Cress. ibid. 64, ♀. Colorado.
cinctus Cress. ibid. 201, ♂ ♀. Nevada.
zonalis Cress. ibid. 201, ♂. California.
scitulus Cress. ibid. 64, ♀. Colorado.
Edwardii Cress. ibid. 64, ♂ ♀. California, Nevada.
 var. *lateralis* Cress. Trans. vii, 65, 201, ♀.
pictipes Cress. ibid. 65, ♂. Colorado.
obscurellus Cress. ibid. 201, ♂ ♀. California.
ethiops Cress. (*Panurgus*) Trans. iv, 259, ♂ ♀. Texas.
mexicanus Cress. Trans. vii, 65, ♂ ♀. Mexico.
ornatipes Cress. (*Panurgus*) Trans. iv, 260, ♂ ♀. Colorado, Texas.
albitalis Cress. (*Panurgus*) ibid. 260, ♂ ♀. Colorado, Texas, California.
 var. *Panurgus picipes* Cress. Trans. iv, 261, ♂.
illinoiensis Cress. Trans. vii, 66, ♂. Illinois.
pauper Cress. ibid. 66, ♂ ♀. New York, Colorado.
californicus Cress. ibid. 67, ♂. California.
atricornis Cress. ibid. 67, ♂. Colorado.
elypeatus Cress. ibid. 67, ♂. Colorado.
atricops Cress. ibid. 67, ♂. California.
lepidus Cress. ibid. 68, ♀. Georgia.
abdominalis Cress. ibid. 68, ♂ ♀. Texas.

PERDITA Smith.

- halictoides* Sm. Brit. Mus. Cat. i, 128. North America, +.
hyalina Cress. Trans. vii, 68, ♂. Colorado.
albipennis Cress. Trans. i, 386, ♀. Colorado, Texas, New Mexico.

* The sign + indicates that the species is unknown to me. Specimens of all the other species given in this catalogue are contained in the Collection of the American Entomological Society, unless otherwise mentioned.

- sonalis* Cress. Trans. vii, 202, ♀. Nevada.
sebrata Cress. ibid. 69, ♀. Colorado, Nevada.
S-maculata Say, (*Panurgus*) Long's 2d Exp. ii, 350, ♂ ♀. N. Y., N. J., Va.
affinis Cress. Trans. vii, 69, ♂ ♀. Colorado.
obscurata Cress. ibid. 70, ♂ ♀. Georgia.
interrupta Cress. ibid. 70, ♂. California.

MACROTERA Smith.

- bicolor* Sm. Brit. Mus. Cat. i, 130, ♀. Mexico, +.
texana Cress. Trans. vii, 70, ♀. Texas.
megacephala Cress. ibid. 71, ♂. Texas.
californica Cress. ibid. 71, ♂. California.
cephalotes Cress. ibid. 71, ♂. Nevada.

NOMADA Fabr.

- grandis* Cress. Wheeler Exp. 1875, v. 725, ♂ ♀. Colorado.
superba Cress. Proc. ii, 281, ♂. Colorado.
Edwardsii Cress. Trans. vii, 72, ♂. California.
vinnula Cress. ibid. 202, ♂ ♀. Nevada.
jeoualaris Cress. ibid. 202, ♀. Nevada.
Morrisoni Cress. ibid. 72, ♀. Colorado.
Belfragei Cress. ibid. 72, ♀. Texas.
sebrata Cress. ibid. 73, ♂ ♀. Kansas, Colorado.
opposita Cress. ibid. 73, ♀. California.
adducta Cress. ibid. 73, ♂. Colorado.
affabilis Cress. ibid. 74, ♂. New York, Illinois.
Putnami Cress. Proc. Dav. Acad. Nat. Sci. i, 210, ♂ ♀. Colorado, Utah.
Ridingsii Cress. Trans. vii, 74, ♀. Colorado.
suavis Cress. ibid. 74, ♀ ♂. Nevada, California, Oregon.
Snowii Cress. ibid. 75, ♂ ♀. Colorado.
Heilighbrodtii Cress. ibid. 75, ♂ ♀. Texas.
verecunda Cress. ibid. 203, ♂ ♀. Nevada.
modesta Cress. Proc. ii, 286, ♂ ♀. Maine, Illinois, Colorado, Dakota.
festiva Cress. ibid. 289, ♀. New Jersey.
placida Cress. ibid. 291, ♂ ♀. Pennsylvania.
cubensis Cress. Proc. iv, 180, ♂ ♀. Cuba.
Krugii Cress. Trans. vii, 75, ♂ ♀. Porto Rico.
texana Cress. Trans. iv, 271, ♂ ♀. Texas, Mexico.
tibialis Cress. Proc. iv, 182, ♀. Cuba.
limata Cress. Trans. vii, 76, ♀. Mexico.
mexicana Cress. ibid. 76, ♀. Mexico.
fervida Sm. Brit. Mus. Cat. ii, 247; Cress. Proc. ii, 294, ♂ ♀. Georgia, Florida.
pilosula Cress. Trans. vii, 77, ♂. New York.
electa Cress. Proc. ii, 290, ♂ ♀. Connecticut, Illinois, Kansas.
vicina Cress. ibid. 292, ♂ ♀. Connecticut, New York.
proxima Cress. ibid. 294, ♂. Maine.
bella Cress. ibid. 287, ♂. Massachusetts, Connecticut.
gracilis Cress. ibid. 295, ♂. Massachusetts.
lepida Cress. ibid. 288, ♂. Illinois, Colorado.
articulata Sm. Brit. Mus. Cat. ii, 248; Cress. Proc. ii, 297, ♂. Mass., Ga., Ill.
exita Cress. Trans. vii, 77, ♂. Colorado.
accepta Cress. ibid. 77, ♂ ♀. Kansas, Colorado.

- vineta* Say, Bost. Jour. i, 401; Cress. Proc. ii, 284, ♂ ♀. E. M. & W. States.
pulchella Sm. Brit. Mus. Cat. ii, 247, ♂.
luteola St. Farg.; Cress. Proc. ii, 282, ♂ ♀. E. M. & S. States.
sulphurata Sm. Brit. Mus. Cat. ii, 249, ♀.
suda Cress. Trans. vii, 203, ♀. Nevada.
vitticollis Cress. Trans. vii, 78, ♀. Mexico.
civilis Cress. ibid. 78, ♂. Colorado.
vicinialis Cress. ibid. 78, ♂. Colorado.
rivalis Cress. ibid. 79, ♂. California, Nevada.
fragilis Cress. ibid. 79, ♂. Colorado.
citrina Cress. ibid. 79, ♀. California, Nevada.
munda Cress. ibid. 80, ♀. Colorado.
dilucida Cress. ibid. 80, ♀. Colorado.
libata Cress. ibid. 80, ♂ ♀. Colorado.
parata Cress. ibid. 81, ♀. Colorado.
pacata Cress. ibid. 81, ♀. Colorado.
Crotehii Cress. ibid. 81, ♀. California.
crudelis Cress. ibid. 82, ♀. Georgia.
torrida Sm. Brit. Mus. Cat. ii, 250; Cress. Proc. ii, 300, ♀. Penn., Georgia.
bisignata Say; Cress. Proc. ii, 305, ♂ ♀. Can., E. M. S. & W. S., Cal., B. Col.
 var. *americana* Khy.; Cress. Proc. ii, 308.
 var. *valida* Sm. Brit. Mus. Cat. ii, 246; Cress. Proc. ii, 308, ♀.
 var. *maculata* Cress. Proc. ii, 303, ♂ ♀.
 var. *obliterata* Cress. ibid. 301, ♀.
 var. *depressa* Cress. ibid. 302, ♀.
 var. *perplexa* Cress. ibid. 306, ♂ ♀.
 var. *amena* Cress. ibid. 300, ♀.
 var. *pygmaea* Cress. ibid. 299, ♂.
incerta Cress. Proc. ii, 309, ♀. Middle, Southern and Western States.
melliventris Cress. Trans. vii, 82, ♂. California.
flaviceps Cress. Proc. iv, 181, ♂. (Coll. Gundlach). Cuba.
punctata Fabr.; Cress. Proc. ii, 296. Canada, +.
rubicunda Oliv.; Cress. Proc. ii, 299. Carolina, +.
imbricata Sm. Brit. Mus. Cat. ii, 246; Cress. Proc. ii, 296, ♀. U. States, +.
annulata Sm. ibid. 248; Cress. Proc. ii, 297, ♂ ♀. N. Am., +.
miniata Sm. ibid. 250; Cress. Proc. ii, 308, ♀. Georgia, +.
armata Sch.; Cress. Proc. ii, 311, ♂ ♀. Nova Scotia, +.
ruficornis Linn.; Cress. Proc. ii, 310, ♂ ♀. North America, +.

PASITES Latr.

- pilipes* Cress. Proc. iv, 183, ♂ ♀. Cuba.

OSIRIS Smith.

- mexicanus* Cress. Trans. vii, 82, ♂ ♀. Mexico.
marginatus Cress. ibid. 83, ♂ ♀. Mexico.

PHILEREMUS Latr.

- americanus* Cress. Trans. vii, 83, ♂ ♀. Canada, Colorado.
montanus Cress. ibid. 83, ♂. Nevada.
fulviventris Cress. ibid. 83, ♂. California.
?pulchellus Cress. ibid. 84, ♂ ♀. Colorado.
?productus Cress. ibid. 203, ♀. Nevada.

EPEOLUS Latr.

- 4-fasciatus* Say, West. Quar. Rep. ii, 82; Cress. Proc. ii, 395, ♂ ♀. Tex., Ark.
distinctus Cress. Trans. vii, 84, ♂ ♀. Georgia.
bardus Cress. ibid. 84, ♀. Texas.
sacatecus Cress. ibid. 85, ♀. Mexico.
concevus Cress. ibid. 85, ♀. Georgia, Louisiana, N. Mex., California.
remigatus Fabr.; Cress. Proc. ii, 393, ♂ ♀. New York, Penn., Georgia, Mex.
lunatus Say, Long's 2d Exp. ii, 354; Cress. Proc. ii, 394, ♂ ♀. M. S. & W. S.
Wilsoni Cress. Proc. iv, 183, ♂. Cuba.
robustus Cress. Trans. vii, 85, ♀. New Mexico.
nevadensis Cress. ibid. 86, ♀. Nevada.
vicinus Cress. Proc. iv, 185, ♂ ♀. Cuba.
pulchellus Cress. ibid. 185, ♂. (Coll. Gundlach). Cuba.
californicus Cress. Trans. vii, 86, ♀. California.
scelestus Cress. ibid. 86, ♀. Texas.
totonacus Cress. ibid. 87, ♀. Mexico.
texanus Cress. ibid. 87, ♂. Texas.
occidentalis Cress. ibid. 87, ♂ ♀. Texas, Colorado, Nevada, California.
topaneus Cress. ibid. 88, ♂. Mexico.
donatus Sm. Brit. Mus. Cat. ii, 256; Cress. Proc. ii, 396, ♂ ♀. E. M. S. & W. S.
soutellaris Say, Long's 2d Exp. ii, 82; Cress. Proc. ii, 397, ♀. Penn., Ark.
merceus Fabr.; Cress. Proc. ii, 395; Trans. vii, 88, ♂ ♀. Va., Ga., Tex.
lectus Cress. Trans. vii, 88, ♀. Kansas.
agnatus Cress. ibid. 89, ♂. Dakota.
compactus Cress. ibid. 89, ♂ ♀. Texas, Colorado, Nevada, California.
pusillus Cress. Proc. ii, 398, ♂ ♀. New Hampshire, Massachusetts.
astecus Cress. Trans. vii, 89, ♀. Mexico.
mexicanus Cress. ibid. 90, ♂ ♀. Mexico.
fumipennis Say, Bost. Jour. i, 403; Cress. Proc. ii, 398, ♂ ♀. Ga., La., Ill., Mex.
bifasciatus Cress. Proc. iii, 38, ♂.
zonatus Sm. Brit. Mus. Cat. ii, 257; Cress. Proc. ii, 397, ♂ ♀. Florida.
glabratus Cress. Trans. vii, 90, ♂. Georgia.

LIAGASTRA Perty.

- 4-plagiata* Sm. Journal of Entomology, i, p. 83, ♂ ♀. Mexico.

CROCISA Jurine.

- ? *lata* Cress. Trans. vii, 91, ♂. Texas.

MELECTA Latr.

- interrupta* Cress. Trans. iv, 275, ♂ ♀. Texas.
californica Cress. Trans. vii, 91, ♂ ♀. California, Nevada.
thoracica Cress. Wheeler Exp. 1875, v. 726, pl. 33, fig. 5, ♀. Colorado, Nevada.
pacifica Cress. Trans. vii, 91, ♂. California, Nevada.
var. fulvida Cress. Trans. vii, 204, ♀. Nevada.
separata Cress. ibid. 204, ♀. Nevada.
Edwardii Cress. ibid. 92, ♂. California.
maculata Cress. ibid. 204, ♂ ♀. Nevada.
? mucida Cress. ibid. 205, ♂. Nevada.

MELISSA Smith.

- rufipes* Perty; Cress. Proc. iv, 188, ♂ ♀. Cuba.
regalis Sm. Brit. Mus. Cat. ii, 280, ♂ ♀. Mexico.

MESOCHEIRA Smith.

bicolor Fabr. (Melecta) Syst. Piez. 386. Mexico, West Indies.

CHRYSANTHEDA Partz.

nitida Partz; Sm. Trans. Ent. Soc. Lond. 3d ser. i, 41. Mexico, Panama.

STELIS Panz.

australis Cress. Trans. vii, 92, ♀. Georgia.

costalis Cress. Trans. iv, 274, ♂ ♀. Texas.

laticincta Cress. Trans. vii, 92, ♀. California.

lateralis Cress. Proc. ii, 410, ♀. Pennsylvania, Nevada.

interrupta Cress. Trans. vii, 205, ♀. Nevada.

federalis Sm. Brit. Mus. Cat. ii, 275; Cress. Proc. ii, 410, ♂ ♀. U. States, +.

obesa Say, Bost. Jour. i, 398; Cress. Proc. ii, 409. Indiana, +.

montana Cress. Proc. iii, 39, ♀. Colorado, Nevada.

? nitida Cress. Trans. vii, 92, ♀. Canada, New York.

? submarginata Cress. Trans. vii, 93, ♀. Colorado.

? elegans Cress. Proc. ii, 410, ♀. Colorado.

? subcerulea Cress. Trans. vii, 93, ♂. Colorado, Nevada.

? monticola Cress. ibid. 94, ♀. Colorado.

COELIOXOIDES Cress.

punctipennis Cress. Trans. vii, 94, ♀. Mexico.

COELIOXYS Latr.

texana Cress. Trans. iv, 272, ♂ ♀. Texas.

alternata Say, Bost. Jour. i, 401; Cress. Proc. ii, 406, ♂ ♀. Ind., Col., Nev.

modesta Sm. Brit. Mus. Cat. ii, 271; Cress. Proc. ii, 404, ♂ ♀. Pa., N. Y., Mex.

tolteca Cress. Trans. vii, 95, ♀. Mexico.

producta Cress. Proc. iv, 187, ♀; Trans. ii, 297, ♂. Cuba.

aperta Cress. Trans. vii, 95, ♀. Colorado.

deplanata Cress. ibid. 96, ♀. Kansas, Colorado.

Comstockii Cress. ibid. 96, ♀. New York.

chichimeca Cress. ibid. 97, ♀. Mexico.

4-dentata Linn.; Cress. Proc. ii, 409, ♂ ♀. New York.

atilis Cress. = brevis Cress. (nec. Eversm.) Proc. ii, 402, ♂ ♀. E. & M. States.

rufipes Guér. Icon. iii, 452, pl. 73, fig. 9; Cress. Proc. ii, 407, iv, 186, ♂ ♀. Cuba.

Uhleri Cress. Proc. iv, 186, ♀. Cuba.

dubitata Sm. Brit. Mus. Cat. ii, 272; Cress. Proc. ii, 400, ♀. N. Y., Del., Ka., Fla.

rufitarsus Sm. ibid. 271; Cress. ibid. 400, ♂. Mass., N. Y., Tex.

8-dentata Say; Cress. Proc. ii, 401, ♂ ♀. Can., E. M. S. & W. States.

lucrosa Cress. Trans. vii, 97, ♀. New York, Colorado.

funeraria Sm. Brit. Mus. Cat. ii, 272; Cress. Proc. ii, 404, ♂. Canada, +.

tegularis Cress. Trans. ii, 297, ♀. (Coll. Gundlach). Cuba.

floridana Cress. Trans. vii, 98, ♂. Florida.

lateralis Cress. Proc. ii, 405, ♂. Pennsylvania.

monta Cress. ibid. 403, ♂ ♀. Connecticut, Colorado, Nevada.

insita Cress. Trans. iv, 273, ♀. Texas.

coloradensis Cress. Trans. vii, 98, ♂. Colorado.

sodalis Cress. ibid. 99, ♂. New York, Colorado.

edita Cress. Trans. iv, 272, ♂ ♀. Texas.

scitula Cress. ibid. 273, ♂ ♀. Texas.

- mexicana* Cress. Trans. vii, 99, ♂ ♀. Mexico.
zapoteca Cress. ibid. 99, ♀. Mexico.
asteca Cress. ibid. 100, ♀. Mexico.
tapaneca Cress. ibid. 100, ♀. Mexico.
otomita Cress. ibid. 101, ♀. Mexico.
totonaca Cress. ibid. 102, ♂ ♀. Mexico.
germana Cress. ibid. 102, ♀. Illinois.
abdominalis Guér. Icon. iii, 453; Cress. Proc. ii, 408, ♂. Cuba.

OSMIA Panz.

- bucephala* Cress. Proc. iii, 17, ♀. B. Am., Mass., N. Y., Va.
megacephala Cress. ibid. 18, ♀. Colorado.
mandibularis Cress. Trans. vii, 102, ♀. Colorado.
chalybea Sm. Brit. Mus. Cat. i, 143; Cress. Proc. iii, 22, ♂ ♀. Georgia, Florida.
faceta Cress. Trans. vii, 103, ♂ ♀. Canada, New York, Georgia.
longula Cress. Proc. iii, 19, ♀. Colorado.
juxta Cress. ibid. 19, ♀. Colorado.
simillima Sm. Brit. Mus. Cat. i, 142; Cress. Proc. iii, 28, ♂ ♀. E. & M. States.
atriventris Cress. Proc. iii, 29, ♀. Can., E. M. & S. States, Cal.
frigida Sm. Brit. Mus. Cat. i, 142; Cress. Proc. iii, 26, ♂ ♀. N. America, +.
dubia Cress. Proc. iii, 29, ♂ ♀. Colorado, Nevada.
purpurea Cress. ibid. 27, ♀. Connecticut, Pennsylvania, Illinois.
globosa Cress. ibid. 36, ♀. British America.
abjecta Cress. Trans. vii, 103, ♀. Colorado.
lignaria Say, Bost. Jour. i, 399; Cress. Proc. iii, 22, ♂ ♀. E. M. S. & W. States.
propinqua Cress. Proc. iii, 23, ♀.
nigrifrons Cress. Trans. vii, 103, ♀. Colorado, Nevada.
densa Cress. Proc. iii, 25, ♀. Colorado.
pusilla Cress. ibid. 35, ♂ ♀. Colorado, Nevada.
brevis Cress. ibid. 36, ♀. Colorado, Nevada.
armaticeps Cress. Trans. vii, 104, ♀. Colorado.
quadriceps Cress. ibid. 104, ♀. California, Nevada.
maura Cress. ibid. 104, ♀. California, Nevada.
californica Cress. Proc. iii, 24, ♀. California, Nevada.
fulgida Cress. ibid. 34, ♂ ♀. Colorado, Nevada.
viridis Cress. ibid. 34, ♀.
cobaltina Cress. Trans. vii, 104, ♀. Nevada, California.
distincta Cress. Proc. iii, 30, ♀. Connecticut.
coloradensis Cress. Trans. vii, 105, ♀. Colorado.
georgica Cress. ibid. 105, ♀. Georgia.
conjuncta Cress. Proc. iii, 31, ♀. Connecticut.
albiventris Cress. ibid. 31, ♂ ♀. Can., E. M. S. & W. States.
pumila Cress. ibid. 35, ♀. Pennsylvania.
subfasciata Cress. Trans. iv, 261, ♂ ♀. Texas.
asteca Cress. Trans. vii, 105, ♀. Mexico.
latitarsis Cress. Proc. iii, 20, ♂. New York, Virginia.
abnormis Cress. Trans. vii, 105, ♂. Colorado.
integra Cress. ibid. 106, ♂. Colorado.
marginipennis Cress. ibid. 106, ♂. Colorado.
hudsonica Cress. Proc. iii, 21, ♂. Hudson's Bay Territory.
montana Cress. ibid. 24, ♂. Colorado.

- cognata* Cress. Proc. iii, 33, ♂. Can., Mass., N. Y., Ill.
canadensis Cress. Proc. iii, 33, ♂.
proxima Cress. Proc. iii, 32, ♂. Brit. Am., Can., E. M. S. & W. States.
texana Cress. Trans. iv, 261, ♂. (Coll. Belfrage). Texas.
4-dentata Cress. Trans. vii, 107, ♂. New York.
sericea Cress. Proc. iii, 27, ♂. Colorado.
inurbana Cress. Trans. vii, 107, ♂. Colorado.
rustica Cress. Proc. iii, 37, ♂. New York, Pennsylvania, Georgia.
vicina Cress. ibid. 38, ♂. Canada, Virginia.
bella Cress. Trans. vii, 107, ♂. Colorado, Nevada.
exigua Cress. ibid. 107, ♂. California.
bucconis Say, Bost. Jour. i, 400; Cress. Proc. iii, 26, ♀. Indiana, +.

HERIADES Spin.

- carinatum* Cress. Proc. ii, 383, ♂ ♀. Eastern, Middle and Southern States.
varioleum Cress. (Megachile), Trans. iv, 270, ♂ ♀. Illinois, Texas, Colorado.
? denticulatum Cress. Trans. vii, 108, ♂. Colorado, Nevada.
? osmoides Cress. (Megachile), Trans. iv, 269, ♀. Texas.
? rotundiceps Cress. Trans. vii, 205, ♀. Nevada, Oregon.
? cubiceps Cress. ibid. 205, ♀. Nevada.

CHELOSTOMA Latr.

- californicum* Cress. Trans. vii, 108, ♂. California.
rugifrons Sm. Brit. Mus. Cat. ii, 220; Cress. Proc. ii, 382, ♀. Georgia, +.
albifrons Kirby, Faun. Bor. Am. iv, 270; Cress. Proc. ii, 382, ♂. N. Am., +.

ANDRONICUS Cress.

- cylindricus* Cress. Proc. ii, 384, ♂ ♀. New York, Connecticut.

ALCIDAMEA Cress.

- producta* Cress. Proc. ii, 386, ♂. Can., E. M. S. & W. States.
 var. *pilosifrons* Cress. ibid. 386, ♂.
Heriades simplex Cress. ibid. 384, ♀.
truncata Cress. Trans. vii, 108, ♂. Georgia.

MONUMETHA Cress.

- borealis* Cress. Proc. ii, 388, ♂ ♀. Br. Am., H. B. T., Me., Col., Nev.
argentifrons Cress. Proc. ii, 387, ♂.
obsoleta Cress. ibid. 388, ♂.

ANTHIDIUM Fabr.

- maculifrons* Sm. B. M. C. ii, 214; Cress. Proc. ii, 375, ♂ ♀. Col., Tex., N. Mex.
cognatum Cress. Trans. vii, 109, ♂ ♀. Georgia.
maculatum Sm. Brit. Mus. Cat. ii, 216; Cress. Proc. ii, 376, ♂. Mexico, +.
astecum Cress. Trans. vii, 109, ♂ ♀. Mexico.
maculosum Cress. ibid. 110, ♂ ♀. Utah, Nevada, California.
mormonum Cress. ibid. 110, ♂. Utah.
emarginatum Say, (Megachile); Cress. Proc. ii, 374, ♂ ♀. W. States, Cal. Nev.
atrifrons Cress. Trans. i, 387, ♀.
 var. *atripes* Cress. Trans. vii, 205, ♂. Nevada.
californicum Cress. ibid. 206, ♂. California.
montivagum Cress. ibid. 110, ♂ ♀. Colorado.

- atriventre Cress. Trans. vii, 111, ♂ ♀. California, Nevada.
 palliventre Cress. ibid. 114, ♀. California.
 jocosum Cress. ibid. 111, ♂. Colorado.
 placitum Cress. ibid. 206, ♀. Nevada.
 sebratum Cress. Trans. iv, 270, ♂ ♀. Texas, Colorado.
 occidentale Cress. Trans. i, 386, ♂ ♀. Colorado, New Mexico, Nevada.
 Ridingsii Cress. Trans. vii, 111, ♀. Georgia.
 crassipes Cress. ibid. 112, ♀. Florida.
 Edwardsii Cress. ibid. 112, ♂. California.
 blanditum Cress. ibid. 206, ♀. Nevada.
 illustre Cress. ibid. 206, ♀. Nevada.
 var. consonum Cress. Trans. vii, 207, ♀. Nevada.
 conspicuum Cress. Trans. vii, 207, ♀. Nevada.
 formosum Cress. ibid. 112, ♂. Colorado.
 singulare Cress. ibid. 207, ♀. Nevada.
 vanustum Cress. ibid. 113, ♀. Colorado.
 interruptum Say, (Megachile); Cress. Proc. ii, 380, ♂ ♀. Ga., Ks., Col.
 curvatum Sm. Brit. Mus. Cat. ii, 215, ♀.
 simile Cress. Proc. ii, 378, ♂ ♀. Massachusetts, Connecticut.
 consimium Cress. Trans. iv, 270, ♂ ♀. Texas.
 taxanum Cress. Trans. vii, 113, ♂. Texas.
 pudicum Cress. ibid. 208, ♂. Nevada.
 pudens Cress. ibid. 208, ♀. Nevada.
 parvum Cress. ibid. 114, ♂ ♀. Colorado, Oregon.
 Ulkei Cress. ibid. 115, ♂ ♀. Utah, Nevada.
 jugatorium Say, (Megachile); Cress. Proc. ii, 380, ♂ ♀. Colorado.
 lepidum Cress. Trans. vii, 115, ♂. Georgia.
 Gabbii Cress. ibid. 115, ♂. Costa Rica.
 mexicanum Cress. ibid. 116, ♂ ♀. Mexico.
 perplexum Sm. Brit. Mus. Cat. ii, 214; Cress. Proc. ii, 377, ♂ ♀. Ga., Fla.
 notatum Latr.; Cress. Proc. ii, 376, ♂ ♀. Mass., N. J., Pa., Del., Ga., Nev.
 apicale Cress. Trans. vii, 116, ♂ ♀. Mexico.
 bivittatum Cress. ibid. 116, ♂. Mexico.
 toltacum Cress. ibid. 117, ♂. Mexico.
 agnatum Cress. ibid. 117, ♂. Mexico.
 dorsale St. Farg. Hym. ii, 384; Cress. Proc. ii, 381, ♂. Georgia, +.

LITHURGUS Latr.

- gibbosus Sm. Brit. Mus. Cat. i, 147, ♀. Florida, Colorado.
 compressus Sm. ibid. 147, ♂. Georgia, Texas, Colorado.
 apicalis Cress. Wheeler Exp. 1875, v, 724, ♀.

MEGACHILE Latr.

- xylocopoides Sm. Brit. Mus. Cat. i, 189, ♂ ♀. Georgia, Florida.
 morio Sm. ibid. 189, ♀. United States, +.
 carbonaria Cress. Trans. vii, 208, ♀. Nevada.
 maura Cress. Proc. iv, 179, ♀. Cuba.
 totonaca Cress. Trans. vii, 117, ♀. Mexico.
 subnigra Cress. ibid. 208, ♂ ♀. Nevada.
 mucida Cress. ibid. 118, ♂ ♀. Georgia.
 gemula Cress. ibid. 118, ♂ ♀. North Carolina, Georgia.

- melanophæa* Sm. Brit. Mus. Cat. i, 191, ♂ ♀. H. B. T., Can., E. M. S. & W. S.
frigida Sm. ibid. 193, ♂ ♀. H. B. T., Can. E. M. S. & W. S.
vidua Sm. ibid. 192, ♀.
latimanus Say, West. Quar. Rep. ii, 81, ♂ ♀. Can. E. M. S. & W. S., Cal. Van.
femorata Sm. Brit. Mus. Cat. i, 188, ♂.
acuta Sm. ibid. 192, ♀.
comata Cress. Trans. iv, 262, ♂. Texas, Colorado.
fortis Cress. ibid. 262, ♂ ♀. Texas, Colorado, Kansas.
Palmeri Cress. Trans. vii, 119, ♂ ♀. Guadalupe Island, Pacific Ocean.
atricaps Cress. Proc. iv, 176, ♀. Cuba.
asteca Cress. Trans. vii, 119, ♂ ♀. Mexico.
Poeyi Guér. Icon. iii, 450; Cress. Proc. iv, 177, ♂ ♀. Cuba.
polliearis Say, Bost. Jour. i, 406, ♂. Texas.
grandis Cress. Trans. iv, 268, ♀.
Sayi Cress. Trans. vii, 119, ♂ ♀. Del., N. C., Ga., Ks., Tex.
pugnata Say, Bost. Jour. i, 408, ♂ ♀. Can., E. M. S. & W. States, Cala., Nev.
acrobiculata Sm. Brit. Mus. Cat. i, 191, ♂.
disparilis Cress. Trans. iv, 264, ♂.
lucrosa Cress. ibid. 267, ♀.
inimica Cress. ibid. 267, ♀. Georgia, Texas.
fidella Cress. Trans. vii, 120, ♂ ♀. Colorado, Nevada, California, Oregon.
albitarsis Cress. Trans. iv, 263, ♂ ♀. Texas, Mexico.
mellitarsis Cress. Trans. vii, 121, ♂. Colorado.
integra Cress. ibid. 121, ♂. Texas.
legalis Cress. ibid. 209, ♂. Nevada.
amica Cress. Trans. iv, 265, ♂. Georgia, Texas.
nevadensis Cress. Trans. vii, 209, ♂ ♀. Nevada.
manifesta Cress. ibid. 122, ♂. Colorado, Nevada.
ingenua Cress. ibid. 122, ♂. Georgia, Illinois.
georgica Cress. ibid. 123, ♂ ♀. Georgia.
avara Cress. ibid. 123, ♂. Georgia, Colorado.
otomita Cress. ibid. 123, ♂. Mexico.
singularis Cress. Proc. iv, 177, ♂. (Coll. Gundlach). Cuba.
flavitarata Sm. Brit. Mus. Cat. i, 183, ♂. St. Vincent, +.
bucephala Sm. ibid. 193, ♂ ♀. Canada, Kansas, Colorado, Utah.
addenda Cress. Trans. vii, 124, ♂ ♀. E. M. S. & W. States.
montivaga Cress. ibid. 124, ♂ ♀. E. M. S. & W. States, Cala., Nev.
pruina Sm. Brit. Mus. Cat. i, 190, ♂ ♀. Georgia, Kansas, Colorado, Texas, Nev.
parallela Sm. ibid. 191, ♂.
facunda Cress. Trans. iv, 266, ♂.
frugalis Cress. ibid. 266, ♂. (Coll. Belfrage). Texas.
deflexa Cress. Trans. vii, 125, ♂. Kansas.
texana Cress. ibid. 125, ♂ ♀. Texas.
generosa Cress. ibid. 125, ♀. North Carolina, Georgia.
pinguis Cress. ibid. 126, ♀. Georgia.
optiva Cress. Trans. iv, 268, ♀. Georgia, Florida, Texas.
mendica Cress. Trans. vii, 126, ♀. Can., E. M. S. & W. States.
relativa Cress. ibid. 126, ♀. Can., N. Y., N. C., Ill., Col., Nev.
centuncularis Linn.; Sm. Brit. Mus. Cat. i, 149. North America, +.
infragilis Cress. Trans. vii, 127. ♂. New York.

- petulana* Cress. Trans. vii, 127, ♂. North Carolina, Georgia.
nupta Cress. Trans. iv, 268, ♀. Texas.
brevis Say, Bost. Jour. i, 407, ♂ ♀. Can., E. M. S. & W. S., Nev., Cal., Or.
lanuginosa Sm. Brit. Mus. Cat. i, 190, ♂ ♀.
gentilis Cress. Trans. iv, 267, ♂.
perbrevis Cress. Trans. vii, 127, ♂. Texas.
curta Cress. Proc. iv, 178, ♂; Trans. ii, 296, ♀. Cuba.
var. tibialis Cress. Trans. ii, 296, ♀.
mexicana Cress. Trans. vii, 127, ♂ ♀. Mexico.
sapoteca Cress. *ibid.* 128, ♀. Mexico.
tuxtla Cress. *ibid.* 128, ♂. Mexico.
tepaneca Cress. *ibid.* 128, ♀. Mexico.
montesuma Cress. *ibid.* 129, ♂ ♀. Mexico.
teluca Cress. *ibid.* 129, ♂. Mexico.
sumichrasti Cress. *ibid.* 129, ♂. Mexico.
chichimeca Cress. *ibid.* 130, ♀. Mexico.
colioxoides Cress. *ibid.* 130, ♂. Mexico.
saptana Cress. *ibid.* 130, ♀. Mexico.
exilis Cress. Trans. iv, 265, ♂. Middle, Southern and Western States.
studiosa Cress. *ib.* 269, ♀.
abacula Cress. Trans. vii, 130, ♂ ♀. Mexico.
isucara Cress. *ibid.* 131, ♂ ♀. Mexico.
armatiopea Cress. Trans. ii, 296, ♀. (Coll. Gundlach). Cuba.
bidentata Sm. Brit. Mus. Cat. i, 190, ♂. Mexico, +.
binotata Guér. Icon. Reg. Anim. 450, ♀. St. Thomas, +.

CERATINA Latr.

- eximia* Sm. Trans. E. S. Lond. 3d ser. i, 40; Cress. Proc. ii, 391. Mex., Pan.
mexicana Cress. Trans. vii, 131, ♂ ♀. Mexico.
asteca Cress. *ibid.* 131, ♂ ♀. Mexico.
ignara Cress. *ibid.* 132, ♀. Mexico.
tejonensis Cress. Proc. ii, 390, ♂. California, Nevada.
duple Say, Bost. Jour. i, 397; Cress. Proc. ii, 389, ♂ ♀. E. M. S. & W. S., Cal.
leta Spin.; Sm. Trans. Ent. Soc. Lond. 3d ser. i, 40. Panama, +.
placida Sm. *ibid.* 41. Panama, +.
punctulata Spin.; Sm. *ibid.* 40. Panama, +.
cobaltina Cress. Trans. vii, 132, ♂. Mexico.
cyaniventris Cress. Proc. iv, 179, ♀. Cuba.

EUCERA Fabr.

- maculata* St. Farg. Hym. ii, 129, ♀. North America, +.

TETRALONIA Spin.

- Gabbii* Cress. Proc. Acad. 1878, 220, ♂ ♀. Costa Rica.
apiculata Cress. *ibid.* 220, ♀. Costa Rica.
fulviventris Sm. Brit. Mus. Cat. ii, 308, ♀. Mexico? +.
cayennensis St. Farg. (Macrocera); Sm. Brit. Mus. Cat. ii, 307, ♂. W. Indies, +.

MELISSODES Latr.

- caliginosa* Cress. Proc. Acad. 1878, 192, ♂ ♀. Maryland, Georgia.
maura Cress. Proc. iv, 188, ♀. Cuba.
pullata Cress. *ibid.* 189, ♂ ♀. Cuba.

- bimaculata* St. Farg. (Macrocera) Ency. Méth. x, 528, ♀. E. M. S. & W. States.
binolata Say, (Macrocera) Bost. Jour. i, 404, ♂ ♀.
nigra St. Farg. (Macrocera) Hym. ii, 112, ♂.
morosa Cress. Proc. Acad. 1878, 193, ♀. Mexico.
montezuma Cress. ibid. 194, ♂ ♀. Mexico.
atrifrons Sm. (Tetralonia) Brit. Mus. Cat. ii, 308, ♀. N. Carolina, Georgia.
nigripes Sm. Brit. Mus. Cat. ii, 311, ♂ ♀. Eastern, Middle & Western States.
desponsa Sm. ibid. 310, ♀. Can., E. M. S. & W. States.
atricentris Sm. ibid. 310, ♂.
dubitata Cress. Proc. Acad. 1878, 194, ♂ ♀. Georgia.
nigrifrons Cress. ibid. 195, ♀. California.
Edwardsii Cress. ibid. 195, ♂. California, Nevada.
intrudens = *nevadensis* Cress. Trans. vii, 209, ♂. Nevada.
californica Cress. Proc. Acad. 1878, 196, ♂. California.
fulvitaris Cress. ibid. 196, ♂. Colorado.
acerba Cress. Trans. vii, 210, ♀. Nevada.
frater Cress. Proc. Acad. 1878, 197, ♂. Colorado.
honesta Cress. Trans. iv, 279, ♂. Texas.
lepidata Cress. Proc. Acad. 1878, 198, ♂. Texas, Colorado.
speciosa Cress. ibid. 198, ♀. Colorado.
dilecta Cress. ibid. 199, ♂. Illinois, Texas, Colorado.
Belfragei Cress. Trans. iv, 278, ♀. Texas.
intermedia Cress. ibid. 278, ♀. (Coll. Belfrage). Texas.
nevadensis Cress. Wheeler Exp. 1875, v, 726, pl. 34, fig. 6, ♂. Nevada.
compta Cress. Proc. Acad. 1878, 199, ♂ ♀. Georgia.
atripes Cress. Trans. iv, 275, ♂ ♀. Texas.
georgica Cress. Proc. Acad. 1878, 200, ♂. Georgia.
coloradensis Cress. ibid. 200, ♂ ♀. Colorado.
obliqua Say, (Macrocera) Bost. Jour. i, 403, ♂ ♀. Ga., Ks., Col., Tex.
comanche Cress. Trans. iv, 276, ♂ ♀. Texas.
texana Cress. ibid. 276, ♂ ♀. Texas.
petulca Cress. Proc. Acad. 1878, 201, ♀. Georgia.
montana Cress. ibid. 202, ♂ ♀. Colorado, New Mexico.
suffusa Cress. ibid. 203, ♂ ♀. Texas.
rivalis Cress. Trans. iv, 277, ♂. Texas.
ambriata Cress. Proc. Acad. 1878, 203, ♂ ♀. Texas.
menashus Cress. Trans. i, 388, ♂ ♀. Col., Tex., N. Mex., Nev., Or.
agilis Cress. Proc. Acad. 1878, 204, ♂. Texas.
communis Cress. ibid. 204, ♂ ♀. Georgia, Illinois.
confusa Cress. ibid. 205, ♂ ♀. Colorado, New Mexico, Nevada.
perplexa Cress. ibid. 206, ♂ ♀. Georgia, Texas.
rustica Say, (Macrocera) Bost. Jour. i, 406, ♂ ♀. E. M. S. & W. States, Van.
senilis Sm. Brit. Mus. Cat. ii, 311, ♀.
denticulata Sm. ibid. 311, ♂.
manipularis Sm. ibid. 312, ♂. Georgia, +.
condigna Cress. Proc. Acad. 1878, 207, ♀. Illinois, Kansas.
Lanierii Guér. (Macrocera) Icon. iii, 455, pl. 74, fig. 7, ♀. Cuba.
Stretchii Cress. Proc. Acad. 1878, 207, ♀. California.
actuosa Cress. ibid. 208, ♀. California.
donata Cress. ibid. 208, ♀. Mexico.

- mimica* Cress. Trans. ii, 298, ♂. Cuba.
trifasciata Cress. Proc. Acad. 1878, 208, ♀. Porto Rico.
albilabris Cress. ibid. 209, ♂. Mexico.
otomita Cress. ibid. 209, ♂. Mexico.
topida Cress. ibid. 210, ♀. Nevada.
suavis Cress. ibid. 210, ♀. Colorado.
lupina Cress. ibid. 210, ♂. California.
Snowii Cress. ibid. 211, ♂. Colorado.
albata Cress. Trans. iv, 281, ♂ ♀. Texas.
pennsylvanica St. Farg. (Macrocera) Hym. ii, 97, ♂. Pennsylvania, +.
americana St. Farg. (Macrocera) Hym. ii, 92, ♂. Carolina, +.
topaneca Cress. Proc. Acad. 1878, 211, ♂ ♀. Mexico.
spissa Cress. Trans. iv, 280, ♂ ♀. Texas.
aurigena Cress. Proc. Acad. 1878, 212, ♂ ♀. Can., E. M. S. & W. States, Nev.
dentiventris Sm. Brit. Mus. Cat. ii, 312, ♂ ♀. Canada, New York, Georgia.
rufodentata Sm. ibid. 314, ♂. St. Vincent, +.
fulvohirta Cress. Proc. Acad. 1878, 213, ♂. Georgia.
exquisita Cress. ibid. 213, ♀. Mexico.
intorta Cress. Trans. iv, 278, ♂. Texas.
pruinosa Say, (Macrocera) Bost. Jour. i, 405, ♂ ♀. E. M. S. & W. States.
philadelphica St. Farg. (Macrocera), Hym. ii, 110, ♂.
strenua Cress. Proc. Acad. 1878, 213, ♂ ♀. Georgia, Texas, New Mexico.
brevicornis Cress. Trans. iv, 281, ♂. Texas.
australis Cress. Proc. Acad. 1878, 214, ♂ ♀. Colorado, Texas.
enavata Cress. Trans. iv, 280, ♀. Kansas, Texas.
ursina Cress. ibid. 281, ♂. Texas.
densa Cress. ibid. 282, ♂. Kansas, Utah, Texas.
diminuta Cress. Proc. Acad. 1878, 215, ♂. Colorado.
olivacea Cress. ibid. 216, ♂ ♀. Mexico, California.
pinguis Cress. ibid. 216, ♂ ♀. Mexico.
pygmaea Cress. Trans. iv, 279, ♂ ♀. Texas.
afflicta Cress. Proc. Acad. 1878, 217, ♂ ♀. Texas.
apacha Cress. ibid. 217, ♀. Texas, New Mexico, Arizona.
sumichrasti Cress. ibid. 218, ♂ ♀. Mexico.
bituberculata Cress. ibid. 218, ♂. California, Nevada.
taurea Say, (Anthophora) Bost. Jour. i, 410, ♂ ♀. Va., Ga., Ky., Mo.
fulvifrons Sm. (Anthophora), Brit. Mus. Cat. ii, 341, ♀. Texas, Mexico.
marginella Cress. Trans. iv, 282, ♂ ♀.
toluca Cress. Proc. Acad. 1878, 219, ♂ ♀. Mexico.
bombiformis Cress. ibid. 219, ♂ ♀. Virginia, Georgia, Kansas.

XENOGLOSSA Smith.

- fulva* Sm. Brit. Mus. Cat. ii, 315, ♂ ♀. Arizona, Mexico.
Anthophora holopyrrha Dours, Mém. Soc. Linn. ii, 89.

ANTHOPHORA Latr.

- carbonaria* Cress. Trans. vii, 210, ♀. Nevada.
atrata Cress. Proc. iv, 189, ♂. Cuba.
pernigra Cress. Trans. vii, 210, ♀. Nevada.
fuscipennis Sm. Brit. Mus. Cat. ii, 338, ♀. North America, +.
tricolor St. Farg. Hym. ii, 86, ♂. West Indies.

- Krugii* Cress. Proc. Acad. 1878, 188, ♂ ♀. Porto Rico.
Smithii Cress. Trans. ii, 289, ♂ ♀. Texas, Colorado, Dakota, New Mexico.
Walshii Cress. ibid. 290, ♂ ♀. Illinois.
marginata Sm. Brit. Mus. Cat. ii, 339, ♀. Mexico.
texana Cress. Trans. iv, 282, ♀. Texas.
californica Cress. Trans. ii, 290, ♂ ♀. California.
capistrata Cress. Proc. Acad. 1878, 187, ♂. Texas.
urbana Cress. ibid. 188, ♂ ♀. Colorado, Utah, Nev., Cal.
affabilis Cress. ibid. 189, ♂ ♀. Texas.
montana Cress. Trans. ii, 290, ♀. Colorado.
terminalis Cress. ibid. 292, ♂ ♀. Eastern, Middle, Western States, Van.
ursina Cress. ibid. 291, ♂. West Virginia, North Carolina.
simillima Cress. Proc. Acad. 1878, 189, ♂. Colorado, Nevada.
pacifica Cress. ibid. 190, ♂. California, Nevada.
ignava Cress. Trans. vii, 210, ♂ ♀. Nevada.
Edwardii Cress. Proc. Acad. 1878, 190, ♂ ♀. Nevada, California.
mucoïda Cress. ibid. 191, ♀. Colorado.
miserabilis Cress. ibid. 191, ♂. California, Nevada.
albata Cress. Proc. Dav. Acad. Nat. Sci. i, 211, ♂ ♀. Colorado.
maculifrons Cress. Trans. vii, 210, ♂ ♀. Nevada.
flexipes Cress. ibid. 211, ♂ ♀. Nevada.
exigua Cress. ibid. 211, ♂ ♀. Nevada.
occidentalis Cress. Trans. ii, 292, ♂ ♀. Colorado, Texas.
bomboides Kirby, Faun. Bor. Am. iv, 271, ♂ ♀. Can., E. M. S. & W. States.
 var. canadensis Cress. Trans. ii, 292, ♂.
sodalis Cress. Trans. vii, 212, ♂. Nevada.
centriformis Cress. ibid. 212, ♂. Nevada.
abrupta Say, Bost. Jour. i, 409, ♂ ♀. Can., E. M. S. & W. States.
 sponæa Sm. Brit. Mus. Cat. ii, 339, ♀.
floridana Sm. Brit. Mus. Cat. ii, 339, ♂ ♀. Pa., Ill., Ga., Fla., Cal.
frontata Say, Bost. Jour. i, 409, ♂. Louisiana, +.
Morrisoni Cress. Proc. Acad. 1878, 192, ♂. Colorado.
Crotchii Cress. ibid. 192, ♂. California.
squamulosa Dours, Mém. Soc. Linn. ii, 78. Mexico, +.
melanopyrrha Dours, ibid. 90. Mexico, +.
aurelento-caudata Dours, ibid. 92. Mexico, +.
citreo-strigata Dours, ibid. 95. North America, +.
pluto Dours, ibid. 95. Mexico, +.
badia Dours, ibid. 107. Mexico, +.
rufosonana Dours, ibid. 112. Mexico, +.
Godofredi Dours, ibid. 119. St. Vincent, +.
mexicana Dours, ibid. 133. Mexico, +.
tarsata Dours, ibid. 147. Mexico, +.
pygmaea Dours, ibid. 151. Mexico, +.
pyralitarsis Dours, ibid. 160. New York, +.
volucellæ-formis Dours, ibid. 189. Mexico, +.
pulella Dours, ibid. 190. Mexico, +.
histrio Dours, ibid. 190. Mexico, +.
unistrigata Dours, ibid. 192. Mexico, +.
luteo-dimidiata Dours, ibid. 192. Mexico, +.

bidentata Fab. (*Andrena*), Ent. Syst. ii, 313; Syst. Piez. 381. N. America, +.
domingensis St. Farg. Hym. ii, 32. St. Domingo, +.
disjuneta Fabr. (*Apis*); Kirby, Illig. Mag. v, 114. West Indies, +.
holosericea Fabr. (*Apis*); Kirby, ibid. 113. West Indies, +.

XYLOCOPA Latr.

morio Fabr.: Sm. Trans. Ent. Soc. Lond. 1874, 285, ♀. Mexico, Nicaragua.
ambriata Fabr.; Sm. ibid. 284, ♂ ♀. Mexico, West Indies.
unicipennis De Geer; Sm. ibid. 285, ♀. L. California, Mexico.
eubocula Lucas; Sm. ibid. 297, ♂ ♀. Cuba.
colona St. Farg.; Sm. ibid. 287, ♀. Barbadoes, +.
mordax Sm. ibid. 294, ♀. West Indies, +.
orpifex Sm. ibid. 298, ♂ ♀. California, Nevada.
loripes Sm. ibid. 298, ♂. Mexico, +.
splendidula St. Farg.; Sm. ibid. 288, ♀. Nicaragua, +.
grossa Drury; Sm. ibid. 281, ♂ ♀. West Indies, +.
arizonensis Cress. Trans. vii, 212, ♂ ♀. Arizona.
californica Cress. Proc. iii, 40, ♂ ♀. California, Nevada.
tenuata Sm. Trans. Ent. Soc. Lond. 1874, 299, ♀. Mexico, +.
formosa Sm. ibid. 299, ♀. Mexico, +.
barbata Fabr.; Sm. ibid. 282, ♂ ♀. Mexico.
purpurea Cress. Trans. iv, 284, ♀. Texas.
lateralis Say. Bost. Jour. i, 413, ♂. Mexico, +.
micans St. Farg.; Sm. Trans. Ent. Soc. Lond. 1874, 297, ♂ ♀. Georgia. Florida.
vidua St. Farg. Hym. ii, 210, ♀.
cyanea Sm. Trans. Ent. Soc. Lond. 1874, 296, ♂. Mexico, +.
virginica Drury; Cress. Proc. ii, 90; Sm. ibid. 295, ♂ ♀. M. S. & W. States.
Apis griseocollis De Geer. Mém. Ins. iii, 576, ♂.
texana Cress. Trans. iv, 283; Sm. Trans. Ent. Soc. Lond. 1874, 295, ♂ ♀. Texas.
tabaniformis Sm. Brit. Mus. Cat. ii, 362; ibid. 296, ♂ ♀. Mexico.
asteca Cress. Trans. vii, 133, ♀. Mexico.
subvirescens Cress. id. 213, ♂ ♀. Mexico.
anthophoroides Sm. Trans. Ent. Soc. Lond. 1874, 289, ♀. Mexico, +.
caribea St. Farg. Hym. ii, 202, ♂. Guadeloupe, +.

EXOMALOPSIS Spin.

pulehella Cress. Proc. iv, 191, ♂ ♀. Cuba.
similis Cress. ibid. 191, ♀; Trans. ii, 298, ♂. Cuba.
pubescens Cress. ibid. 192, ♂. Cuba.
limata Cress. Trans. vii, 133, ♀. Mexico.
mexicana Cress. ibid. 133, ♀. Mexico.
otomita Cress. ibid. 133, ♀. Mexico.
tepaneca Cress. ibid. 134, ♀. Mexico.
? mellipes Cress. ibid. 134, ♀. Mexico.

TETRAPEDIA Klug.

maura Cress. Trans. vii, 134, ♂ ♀. Mexico.
lugubris Cress. ibid. 135, ♂. Mexico.
moesta Cress. ibid. 135, ♂ ♀. Mexico.
apicalis Cress. ibid. 136, ♀. Mexico.
terminalis Cress. ibid. 136, ♀. Mexico.
fraterna Cress. ibid. 136, ♂. Mexico.

atripes Sm. Brit. Mus. Cat. ii, 366, ♀. Mexico, +.
calcarata Cress. Trans. vii, 136, ♂ ♀. Mexico.
abdominalis Cress. Proc. Acad. 1873, 182, ♂ ♀. Mexico.

EPICHRIS Klug.

elegans Sm. Jour. Ent. i, 152; Ann. Mag. ser. 4, xiii, 319, ♂ ♀. Mexico.
maculata Sm. Ann. Mag. N. H. ser. 4, xiii, 320, ♀. Mexico, +.

CENTRIS Fabr.

aterrima Sm. Brit. Mus. Cat. ii, 378, ♂. Mexico, +.
ethiops Cress. Proc. iv, 193, ♀. Cuba.
nigrocerulea Sm. Ann. Mag. N. H. ser. 4, xiii, 369, ♂ ♀. Mexico, +.
elegans Sm. ibid. 372, ♀. St. Vincent, +.
crassipes Sm. ibid. 372, ♂. Jamaica, +.
armillatus Cress. Trans. ii, 298, ♂. (Coll. Gundlach). Cuba.
mexicana Sm. Brit. Mus. Cat. ii, 378, ♀. Mexico, +.
lanosa Cress. Trans. iv, 284, ♂. Texas.
thoracica Sm. Ann. Mag. N. H. ser. 4, xiii, 370, ♀. St. Domingo, +.
hæmorrhoidalis Fabr. Syst. Piez. 359, ♂; St. Farg. Hym. ii, 153, ♀. W. Indies.
melanchlæna Sm. Ann. Mag. N. H. ser. 4, xiii, 360, ♂. Mexico, +.
ignita Sm. ibid. 362. Mexico, +.
nitida Sm. ibid. 368, ♀. Honduras, +.
flavifrons Fab. (Anthophora); St. Farg. Hym. ii, 152, ♂ ♀. Mexico.
apicalis Guér.; Cress. Proc. iv, 193, ♂ ♀. Cuba.
pacila St. Farg. Hym. ii, 154, ♀.
versicolor Fabr.; Sm. Ann. Mag. N. H. ser. 4, xiii, 364, ♂ ♀. Mex., W. Indies.
Smithii = *apicalis* Sm. (nec. Guér.) ibid. 367, ♀. St. Barth., W. Ind., +.
insularis Sm. Ann. Mag. N. H. ser. 4, xiii, 367, ♀. St. Domingo, +.
cornuta Cress. Proc. iv, 194, ♀. (Coll. Gundlach). Cuba.
maculifrons Sm. B. M. C. ii, 372; Ann. Mag. ser. 4, xiii, 363, ♀. Mexico, +.
fasciata Sm. ibid. 377, ♂ ♀. Jamaica, +.
monteruma Cress. Trans. vii, 213, ♂ ♀. Mexico.
decolorata St. Farg.; Sm. Ann. Mag. N. H. ser. 4, xiii, 364, ♂. Mex., W. Ind., +.
agilis Sm. ibid. 361, ♂. Mexico, +.
difformis Sm. Brit. Mus. Cat. ii, 374; ibid. 364, ♀. Mexico, +.
testacea St. Farg.; Sm. ibid. 365, ♀. St. Domingo, +.
totonaca Cress. Trans. vii, 213, ♀. Mexico.
fulviventris Cress. Proc. iv, 193, ♀. Mexico, West Indies.
dentipes Sm. Ann. Mag. N. H. ser. 4, xiii, 366, ♂.
otomita Cress. Trans. vii, 214, ♂. Mexico.
simillima Sm. Ann. Mag. N. H. ser. 4, xiii, 370, ♀. St. Domingo, +.

EULEMA St. Farg.

dimidiata Fabr.; Sm. Ann. Mag. N. H. ser. 4, xiii, 441, ♂ ♀. Mexico.
cajennensis St. Farg. Hym. ii, 14. ♂. Mexico, Honduras.
fasciata St. Farg.; Sm. Ann. Mag. N. H. ser. 4, xiii, 442, ♂ ♀.
terminata Sm. ibid. 442, ♂. Trinidad, +.
surinamensis Linn.; Sm. ibid. 442. Mexico.

EUGLOSSA Latr.

cordata Linn.; Sm. Ann. Mag. N. H. ser. 4, xiii, 443, ♂ ♀. Mex., Pan., Jam.
piliventris Guér. Icon. Règ. Anim. iii, 458, ♂ ♀. West Indies.

ignita Sm. Ann. Mag. N. H. ser. 4, xiii, 444, ♂. Jamaica, +.
smaragdina Perty; Guér. Icon. Règ. Anim. iii, 458. Bay of Campeche, +.
emrulescens St. Farg.; Sm. Ann. Mag. N. H. ser. 4, xiii, 445, ♂ ♀. Mexico, +.

APATHUS Newman.

variabilis Cress. Trans. iv, 284, ♂ ♀. Texas.
intrudens Sm.; Cress. Proc. ii, 111, ♀. Mexico, Central America.
laboriosus Fab.; Cress. ibid. 111, ♀. Canada, West Virginia.
Ashtoni Cress. Proc. iii, 42, ♂ ♀. Canada, Eastern and Middle States.
insularis Sm.; Cress. Proc. ii, 113, ♂ ♀. Colorado, Vancouver.
citrinus Sm.; Cress. ibid. 112, ♂. Ct., Pa., Del., Ill.
 var. contiguus Cress. ibid. 112, ♂.
fraternus Sm.; Cress. ibid. 111, ♂. North America, +.
?californica Cress. Trans. vii, 214, ♂. California.
?elatus Fabr.; Cress. Proc. ii, 114, ♂. M. S. & W. States.
 var. nidulans Fab.; Cress. Proc. ii, 107, ♂.

BOMBUS Latr.

virginicus Oliv.; Cress. Proc. ii, 87, 166, ♂ ♀ ♂. Can., E. M. S. & W. States.
 impatiens Harris; Cress. ibid. 90, ♂.
separatus Cress. Proc. ii, 165, ♂ ♀ ♂. Can., E. M. S. & W. States.
Bidingii Cress. Proc. Acad. 1878, 182, ♂ ♀ ♂. Can., E. M. & S. States.
vagans Sm. B. M. C. ii, 399; Cress. Proc. ii, 91. Can., E. M. S. & W. States.
consimilis Cress. Proc. iii, 41. Can., E. M. S. & W. States.
affinis Cress. Proc. ii, 103, ♂ ♀ ♂. Can., E. M. S. & W. States.
perplexus Cress. Proc. iii, 91, ♂. H. B. Ter., E. M. & S. States, Nevada.
 var. hudsonicus Cress. Proc. ii, 92, ♂.
oregonensis Cress. Proc. Acad. 1878, 185, ♂. Oregon.
bimaculatus Cress. Proc. ii, 92, ♂. Massachusetts, Connecticut.
Morrisoni Cress. Proc. Acad. 1878, 183, ♂ ♀ ♂. Colorado, N. Mexico, Nevada.
nevadensis Cress. Wheeler Exp. 1875, v. 728, pl. 34, fig. 5, ♀ ♂. Col. Ariz. Nev. Cal.
appositus Cress. Proc. Acad. 1878, 183, ♂ ♀ ♂. Colorado, N. Mexico, Nevada.
borealis Kirby; Cress. Proc. ii, 93; iii. 41, ♂ ♀ ♂. Can., N. H., W. Va.
fervidus Fab. (Apis); Cress. id. 93, ♀ ♂. Can., E. M. S. & W. S., Nev., Cal.
 var. dorsalis Cress. ♀. Thorax above entirely yellow.
sonorus Say, Bost. Jour. i, 413; Cress. Proc. ii, 95, ♀ ♂. Mexico.
pennsylvanicus De Geer, (Apis); Cress. ibid. 94, ♂ ♀ ♂. Can., E. M. S. & W. S.
 var. americanorum Fab. Syst. Ent. 380; Syst. Piez. 346.
 var. pallidus Cress. Proc. ii, 92, ♀.
improbis Cress. Proc. Acad. 1878, 186, ♂. Colorado.
terricola Kirby; Cress. Proc. ii, 99, ♂ ♀ ♂. Can., E. & M. States.
areolaris Kirby; Cress. ibid. 95, ♂ ♀. Arctic America, +.
pleuralis Nyl.; Cress. ibid. 96, ♂ ♀. Sitka, +.
scutellaris Cress. ibid. 96, ♂ ♀ ♂. Florida, Texas, Kansas.
grœnlandicus Sm. Brit. Mus. Cat. ii, 393; Cress. Proc. ii, 97, ♀. Greenland, +.
medius Cress. Proc. ii, 97, ♂ ♀ ♂. Mexico, Utah?
californicus Sm. B. M. C. ii, 400; Cress. Proc. ii, 97, ♂ ♀ ♂. Nev., Cal., Or.
dubius Cress. Proc. ii, 97, ♀ ♂. Kansas, Colorado.
occidentalis Greene; Cress. Proc. ii, 98, ♂ ♀ ♂. Nev., Cal., Or., W. Ter., Van.
modestus Sm. Jour. Ent. i, 153; Cress. Proc. ii, 109, ♀ ♂. Mexico.
moderatus Cress. (*modestus*), Proc. ii, 99, 109, ♀. Alaska.

- Edwardsii** Cress. Proc. Acad. 1878, 184, ♂ ♀. Col., Nev., Cal., Van.
hortorum Linn.; Sm. Entom. Annual, 1857, 30. Lake Winnepeg, +.
Howardii Cress. Proc. ii, 99, ♂ ♀. Utah, Colorado, California.
 var. proximus Cress. Proc. ii, 98, ♀.
Crotchii Cress. Proc. Acad. 1878, 184, ♀. California.
Cooperi Cress. *ibid.* 185, ♀. Canada.
Putnami Cress. *ibid.* 185, ♀. Colorado.
gelidus Cress. *ibid.* 184, ♀. Aleutian Islands.
Kirbiellus Curtis; Cress. Proc. ii, 101, ♂ ♀. Arctic America, +.
frigidus Sm. Brit. Mus. Cat. ii, 399; Cress. Proc. ii, 100, ♂ ♀. Col., Van.
 Carrei Greene, Ann. Lyc. Nat. Hist. vii, 170.
polaris Curtis; Cress. Proc. ii, 101, ♂ ♀. Arctic America, +.
strenuus Cress. *ibid.* 102, ♂ ♀. Hudson's Bay Territory.
sithkensis Nyl.; Cress. *ibid.* 102, ♂ ♀. Sitka, +.
melanopyge Nyl.; Cress. *ibid.* 103. Sitka, +.
lacustris Cress. *ibid.* 103, ♂ ♀. H. B. Ter., Van., Greenland.
ornatus Sm. Brit. Mus. Cat. ii, 398; Cress. Proc. ii, 104, ♀. N. America, +.
ternarius Say, Bost. Jour. i, 414; Cress. Proc. ii, 104, ♂ ♀. Can., E. M. & W. S.
 Huntii Greene, Ann. Lyc. Nat. Hist. vii, 172.
bifarius Cress. Proc. Acad. 1878, 185, ♂ ♀. Col., Van., Brit. Col.
centralis Cress. Proc. iii, 41, ♀. Colorado, California.
flavifrons Cress. Proc. ii, 105, ♂ ♀. Alaska, Utah, Colorado.
pratensis Kirby, Faun. Bor. Am. iv, 274; Cress. Proc. ii, 106, ♀. Brit. Am.
sylicola Kirby; Cress. Proc. ii, 106, ♀. Canada, Colorado, Alaska.
junctus Cress. Proc. Acad. 1878, 187, ♀. Colorado, Nevada.
mixtus Cress. *ibid.* 186, ♀. Colorado.
rufocinctus Cress. Proc. ii, 106, ♂ ♀. Colorado.
vancouverensis Cress. Proc. Acad. 1878, 187, ♂. Vancouver's Island.
antiguensis Fab. (Apis); Cress. Proc. ii, 107. Antigua, +.
laboriosus Sm. Jour. Ent. i, 153; Cress. Proc. ii, 109, ♀. Mexico, +.
ephippiatus Say, Bost. Jour. i, 414; Cress. *ibid.* 107, ♀. Mexico.
pulcher Cress. Proc. ii, 108, ♀. Mexico.
carolinus Linn. (Apis); Cress. Proc. ii, 108. North America, +.
mexicanus Cress. Proc. Acad. 1878, 187, ♀. Mexico.
diligens Sm. Jour. Ent. i, 154; Cress. Proc. ii, 110, ♀. Mexico.
Derhamellus Kirby, Faun. Bor. Am. iv, 273. Arctic America, +.
violaceus St. Farg. Hym. i, 473; Cress. Proc. ii, 108, ♀. St. Thomas.

MELIPONA Latr.

- fulvipes** Guér.; Cress. Proc. iv, 195, ♂ ♀. Cuba.
fasciata Latr. Magazin der Entomologie, i, 115. Mexico, +.
ligata Say, (Trigona) Bost. Jour. i, 415. Mexico.

TRIGONA Jurine.

- nigerrima** Cress. Proc. Acad. 1878, 181, ♀. Mexico.
nigra Cress. *ibid.* 181, ♀. Mexico.
bilineata Say, Bost. Jour. i, 414, ♀. Mexico.
perilampoides Cress. Proc. Acad. 1878, 181, ♀. Mexico.
bi-partita St. Farg. Hym. i, 432, ♀. Mexico.
thoracica Cress. Proc. Acad. 1878, 181, ♀. Mexico.
fulviventris Guér. Icon. Règ. Anim. iii, 464. Mexico, +.

- fulvipeda* Guér. Icon. Règ. Anim. iii, 461, pl. 75, fig. 5. Cuba, +.
laboriosa Sm. Trans. Ent. Soc. Lond. ser. 3, i, 42. Panama, +.
mellarius Sm. ibid. 42. Panama, +.
mexicana Guér. Icon. Règ. Anim. iii, 464. Mexico, +.
amalthæa Fabr. (Apis); Sm. Trans. Ent. Soc. Lond. ser. 3, i, 41. Panama, +.

APIS Linn.

- mellifica* Linn.; Sm. Brit. Mus. Cat. ii, 414, ♂ ♀ ♂. North America.

Abbreviations used in References.

- CRESS. PROC.—Cresson, Proceedings Entomological Society of Philadelphia.
 “ PROC. ACAD.—Proceedings Academy of Natural Sciences, Philadelphia.
 “ PROC. DAV. ACAD.—Proceedings Davenport Academy of Natural Sciences.
 “ TRANS.—Transactions American Entomological Society.
 “ WHEELER EXP.—Wheeler Explorations and Surveys west of 100th.
 Meridian, 1875.
 DE GEER, MEM. INS.—Mémoires des Insectes.
 DOURS, MEM. SOC. LINN.—Mémoires Société Linnéenne du Nord de la France.
 EVERSM.—Eversmann.
 FABR. ENT. SYST.—Fabricius, Entomologia Systematica.
 “ SYST. ENT.—Systema Entomologia.
 “ SYST. PIEZ.—Systema Piezatorium.
 GUER. ICON. REG. AN.—Guérin Iconographie du Règne Animal.
 GREENE, ANN. LYC. NAT. HIST.—Annals New York Lyceum of Natural History.
 KBY. FAUN. BOR. AM.—Kirby, Fauna Boreali-Americana.
 “ ILLIG. MAG.—Illiger's Magazin.
 LATR.—Latrielle.
 LINN.—Linnaeus.
 NYL.—Nylander.
 OLIV.—Olivier.
 SAY, BOST. JOUR.—Boston Journal of Natural History.
 “ LONG'S 2d. EXP.—Long's Second Expedition.
 “ WEST. QUAR. REP.—Western Quarterly Reporter.
 SCH.—Schæffer.
 SM. ANN. MAG. N. H.—Smith, Annals and Magazine of Natural History.
 “ B. M. C. OF BRIT. MUS. CAT.—British Museum Catalogues, Hymenoptera.
 “ ENTOM. ANNUAL.—Entomologist's Annual.
 “ JOUR. ENT.—Journal of Entomology.
 “ TRANS. ENT. SOC. LOND.—Transactions Entomological Society of London.
 SPIN.—Spinola.
 ST. FARG.—Lepelletier de Saint Fargeau.
 “ ENCY. METH.—Encyclopédie Méthodique.
 “ HYM.—Hyménoptères, (Suites à Buffon).